

UNCERTAINTY IN LIFE CYCLE ASSESSMENT:

Sources, Types, Propagation, Evaluation, Mitigation and Reporting



LCA is the world's most authoritative environmental assessment method built from cradle to grave

Problem

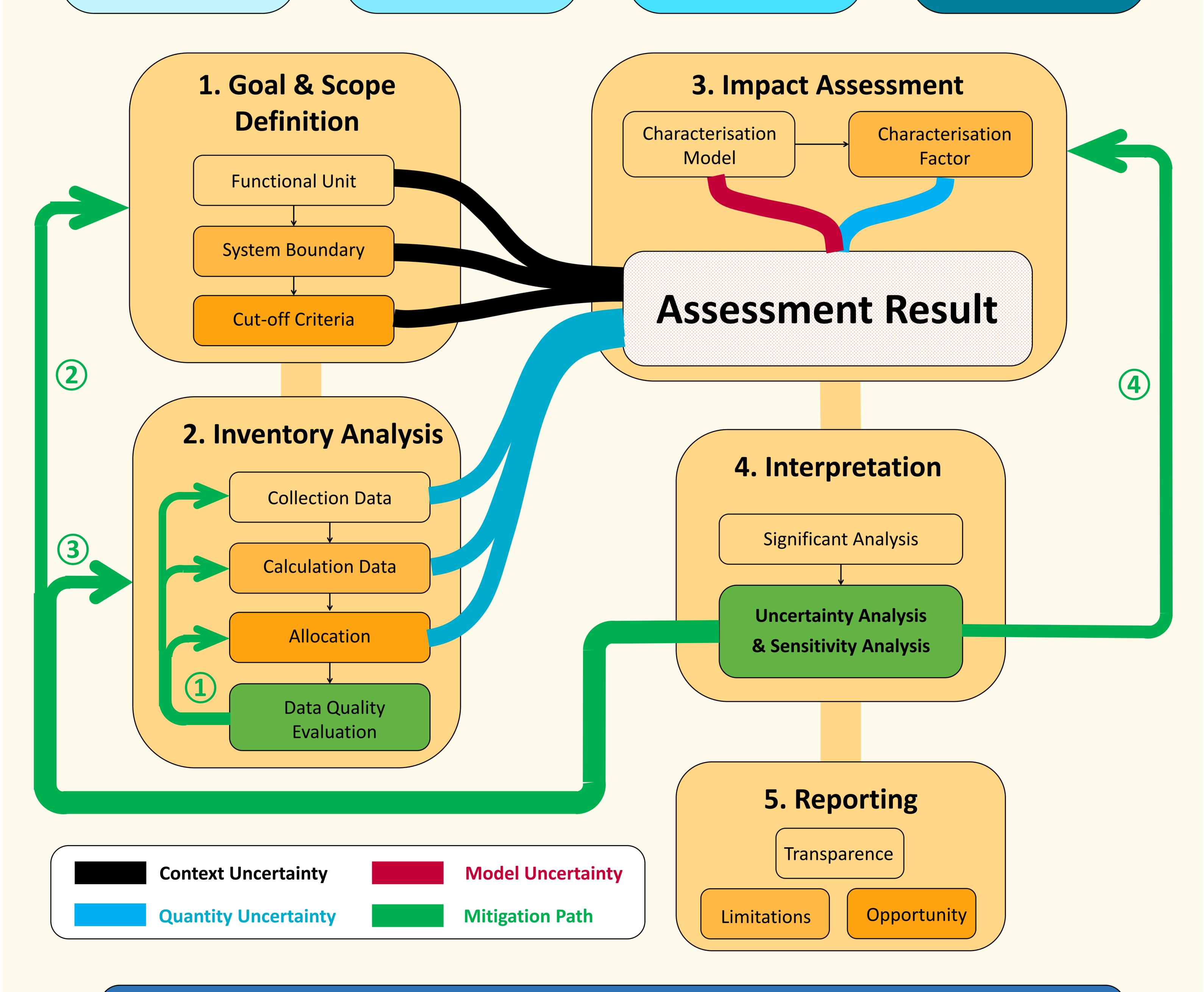
Uncertainty is the killer of LCA credibility and comparability, and lack of holistic understanding



To propose a holistic framework for visualizing the sources, types, propagation, evaluation, mitigation, and reporting of uncertainty



Review and integration of ISO 14040, ISO 14044 standards and ILCD manuals with latest publications until 2025



Relevance

This framework clear visualises the location, nature, flow, evaluation, treatment and communication of uncertainty in LCA, and is beneficial for researchers to develop a holistic understanding from a systems science perspective

Université de Mons

<u>Yipeng YAO</u>, Marie-Eve Duprez, Guy De Weireld University of Mons, Belgium

Contact : Yipeng.YAO@umons.ac.be